

Fig. 1A

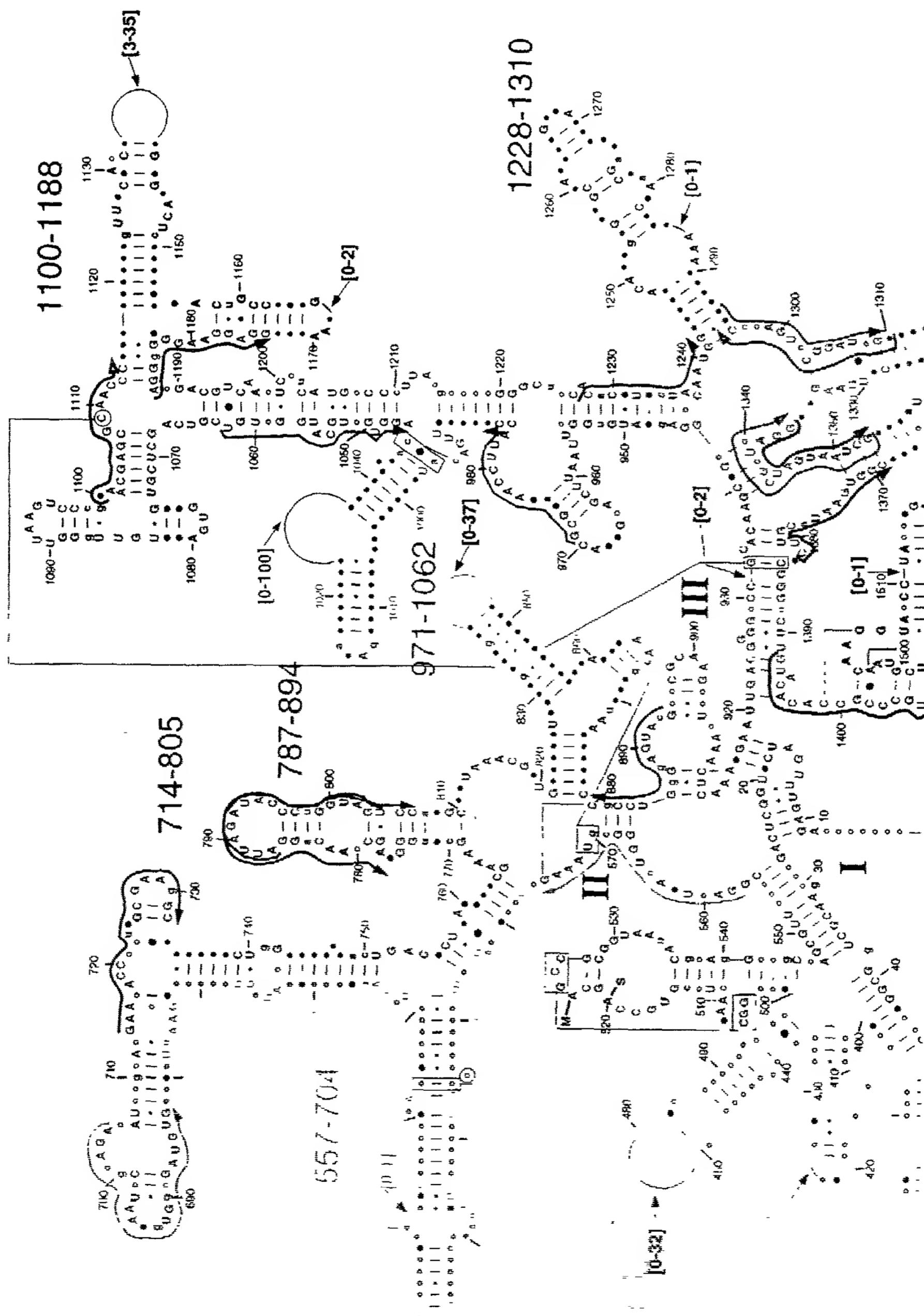
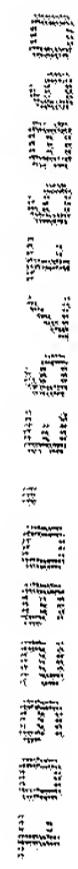


Fig. 1B

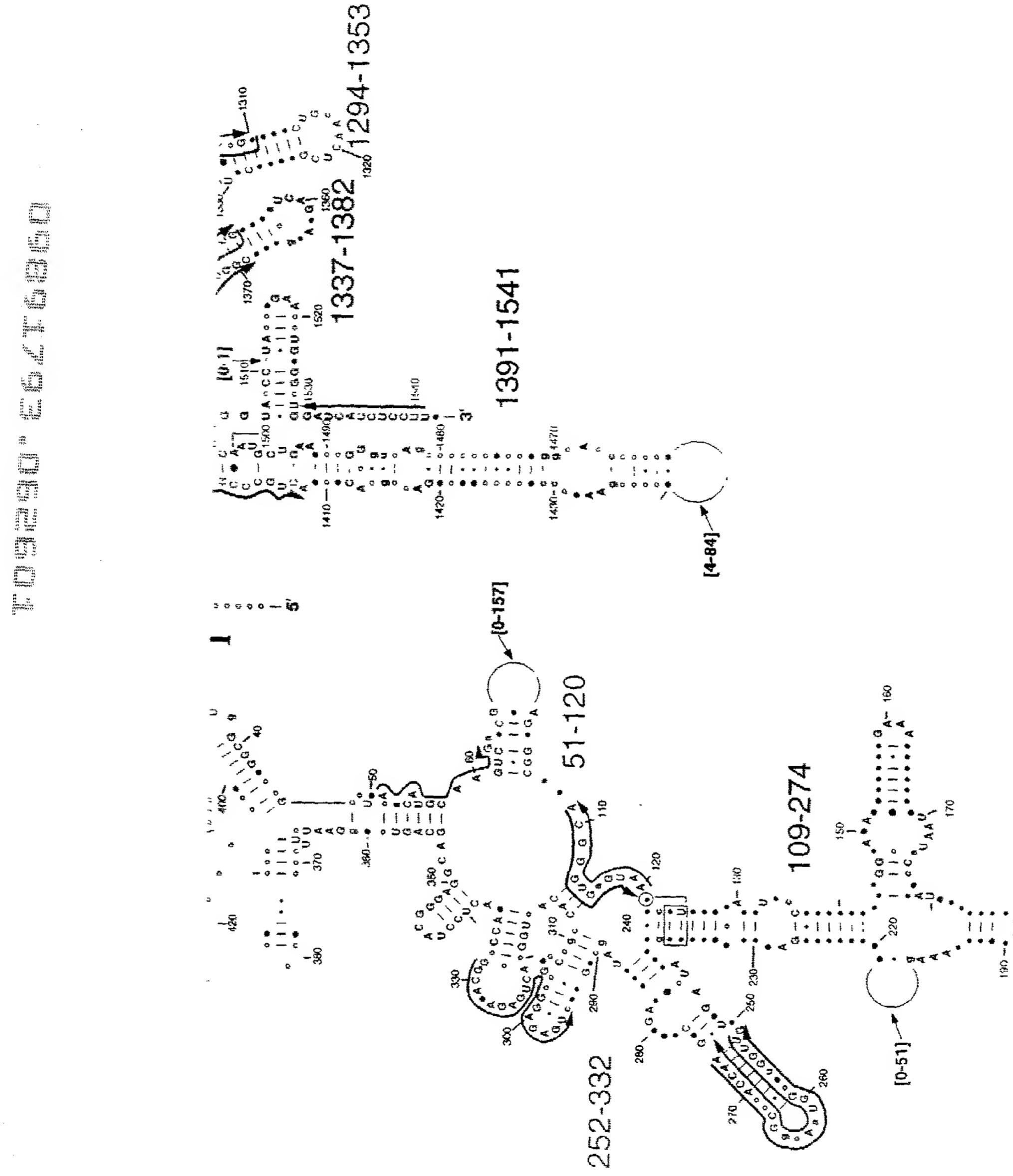
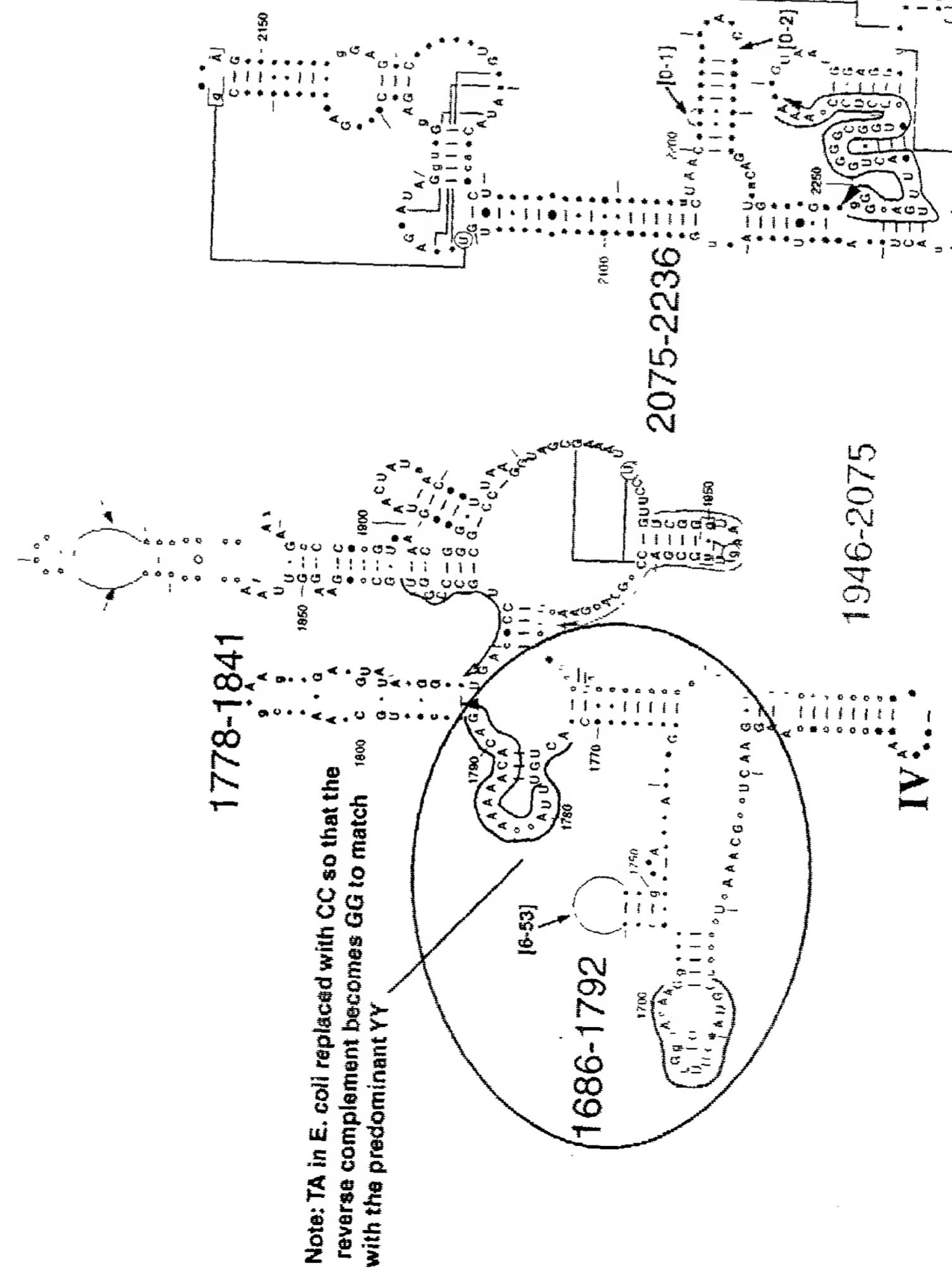


Fig. 1C

[REDACTED]



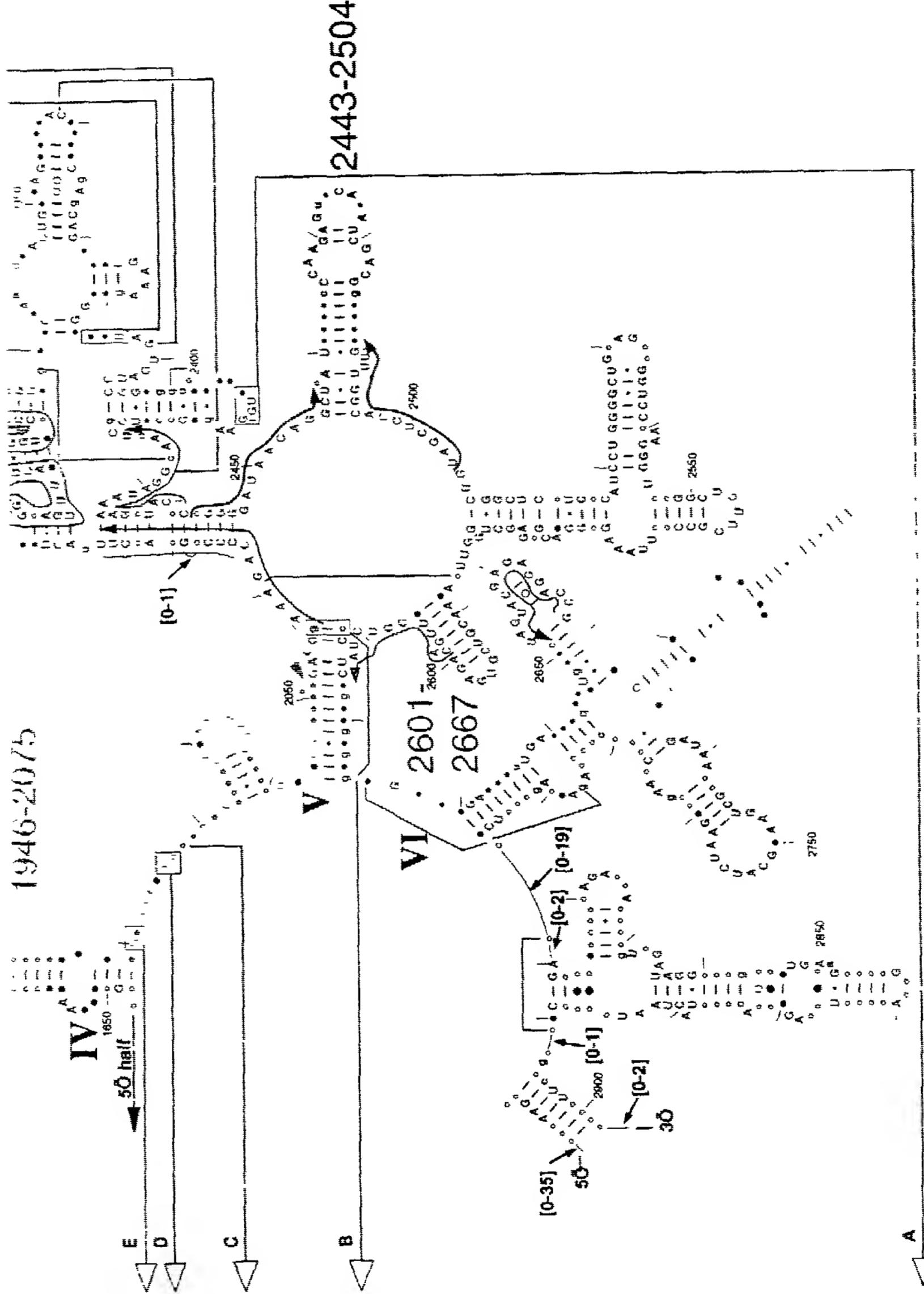
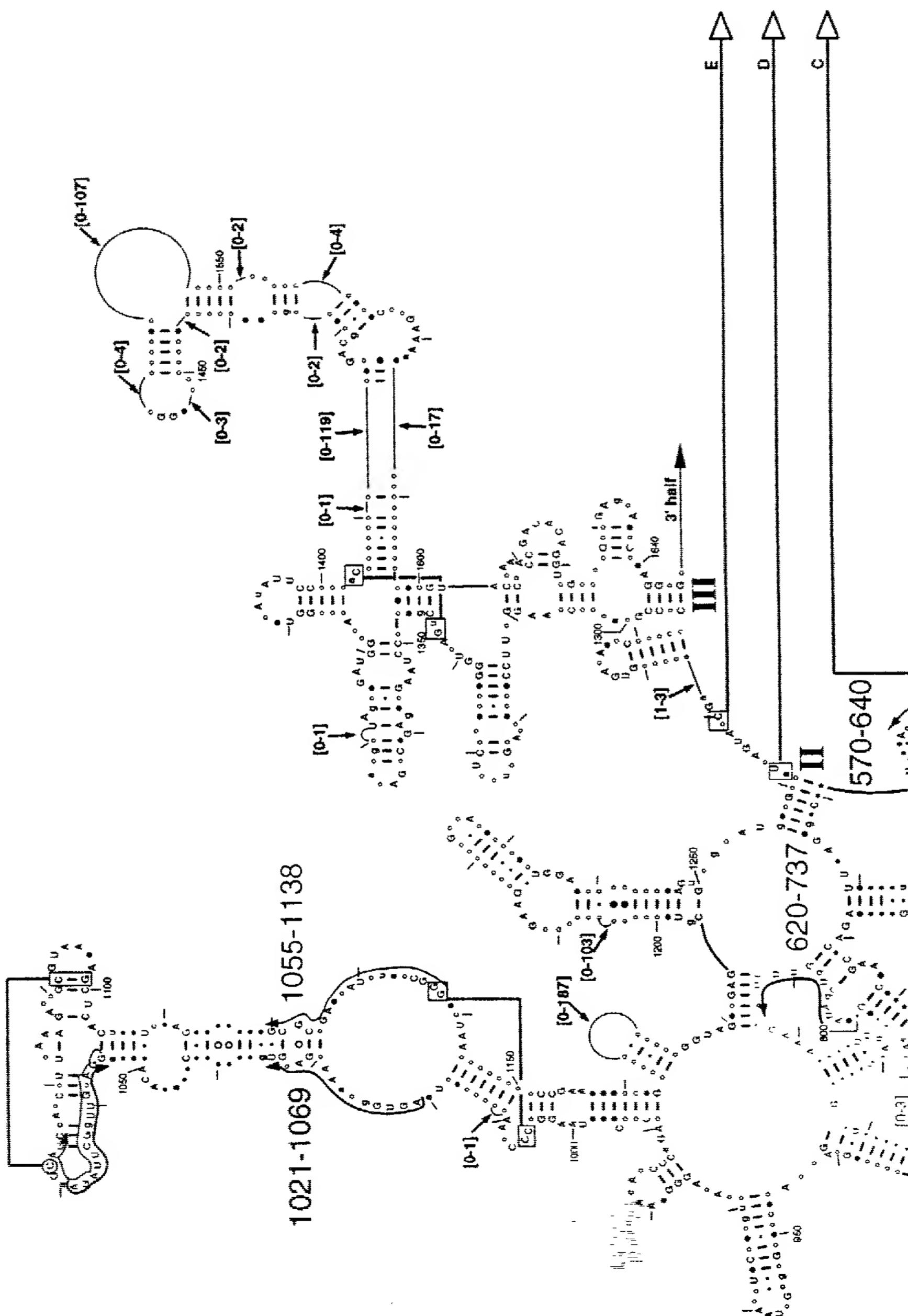


Fig. 1D

Fig. 1E



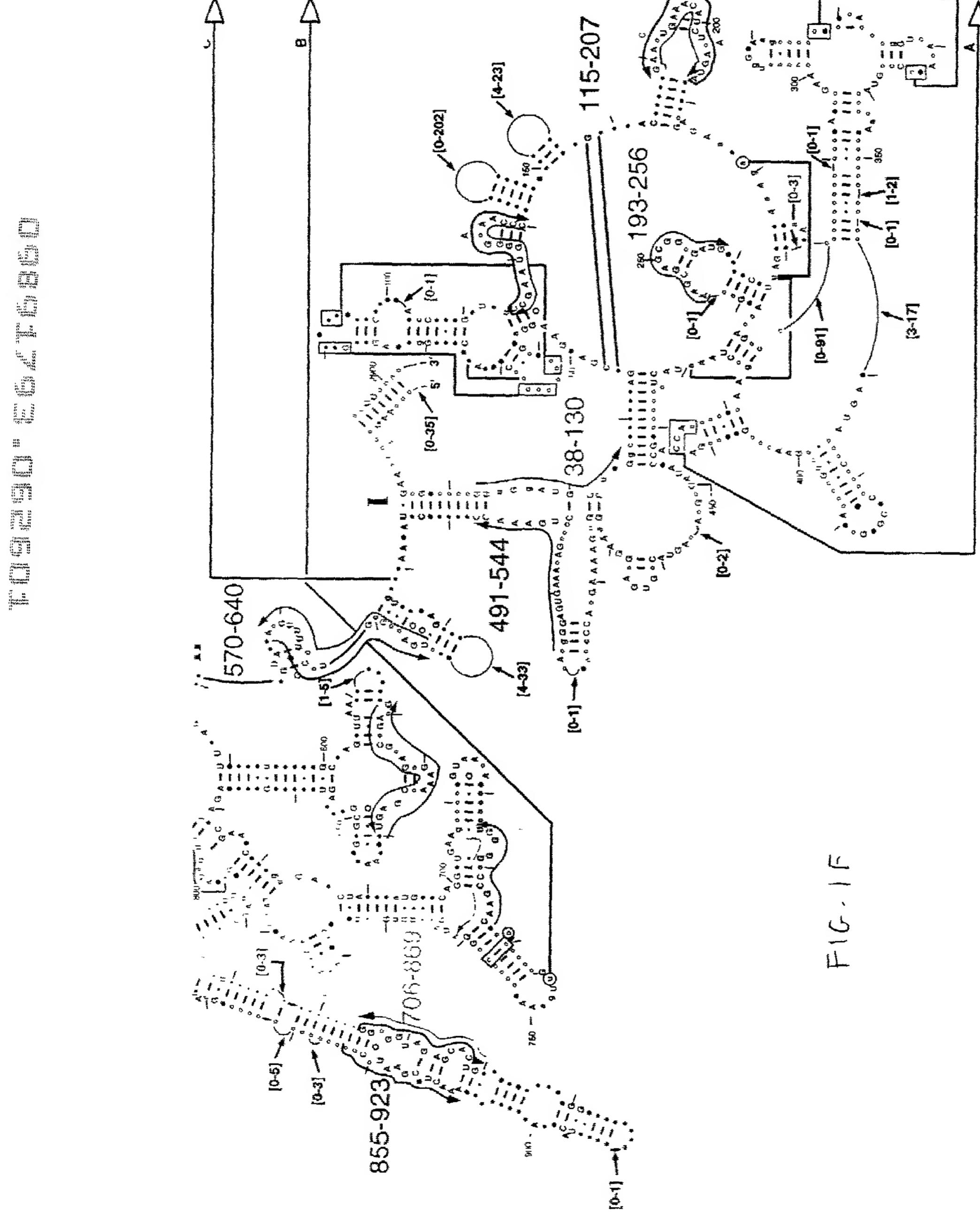


FIG. 1F

FIG. 1G

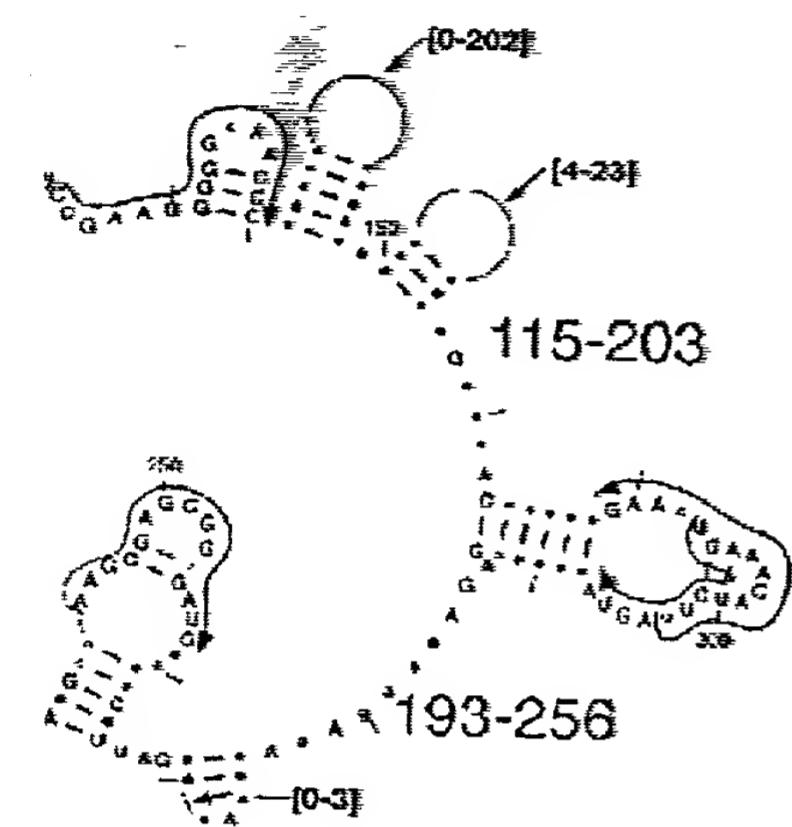


FIG. 1H

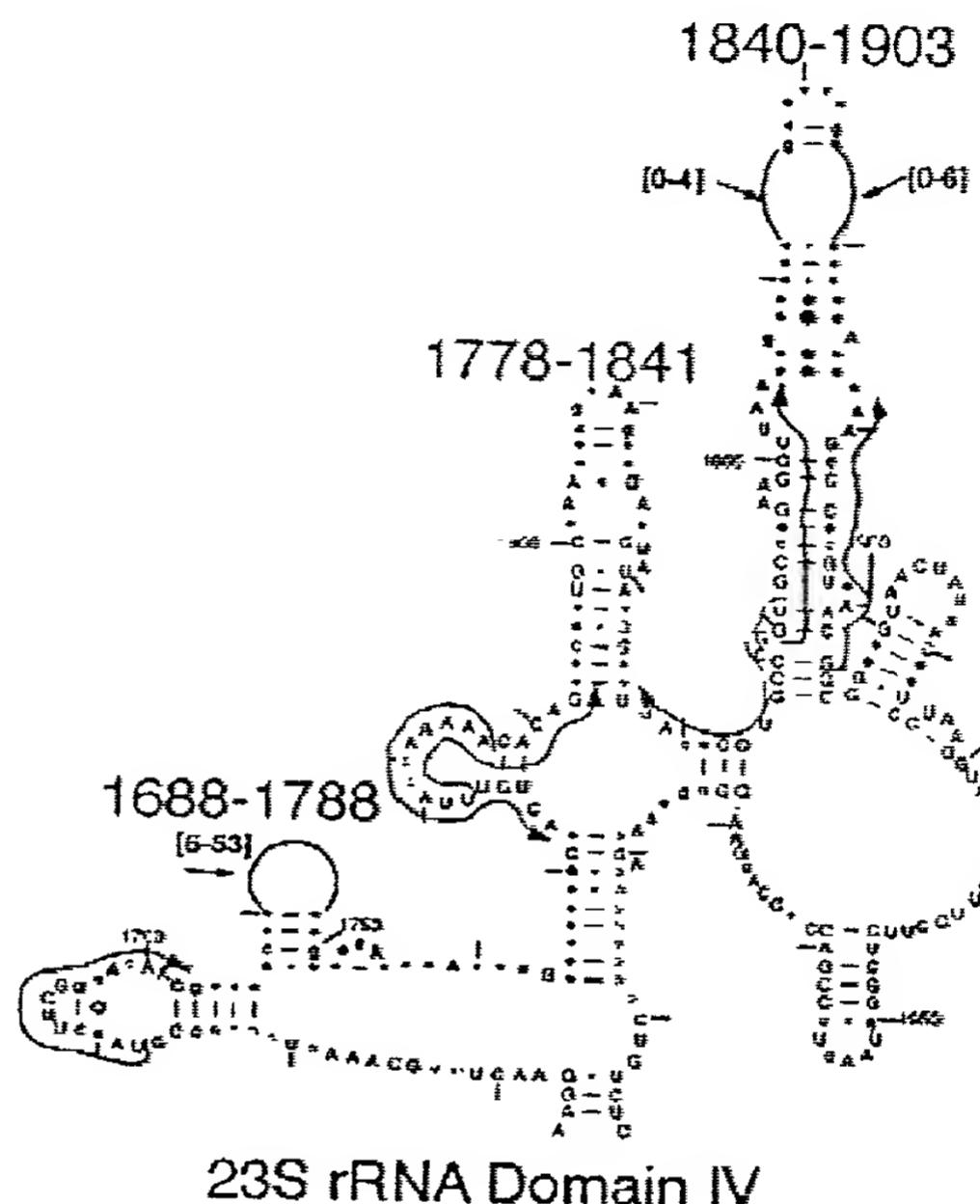


FIG. 1I

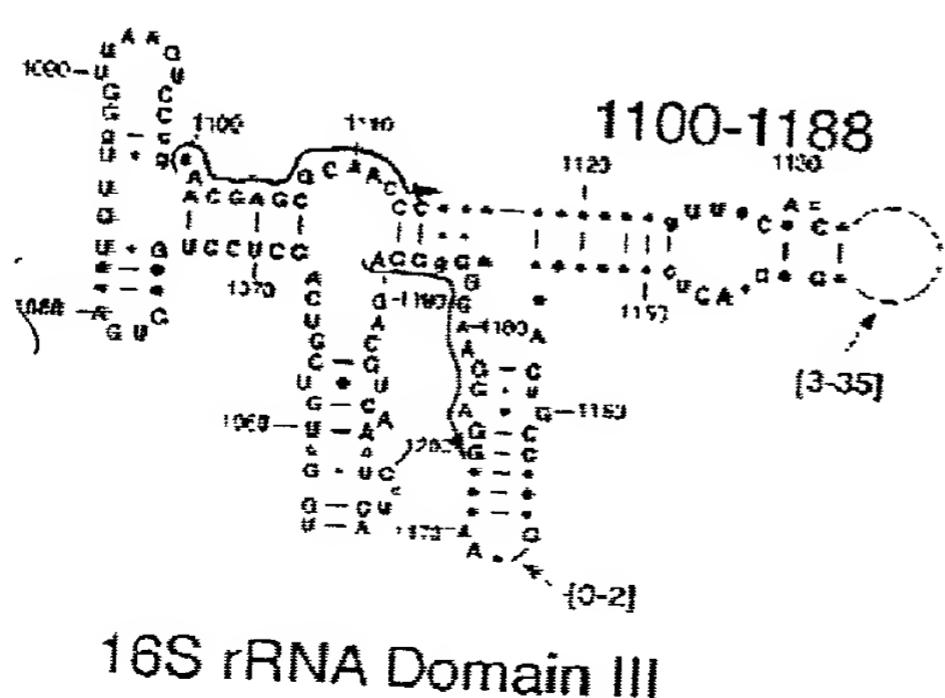
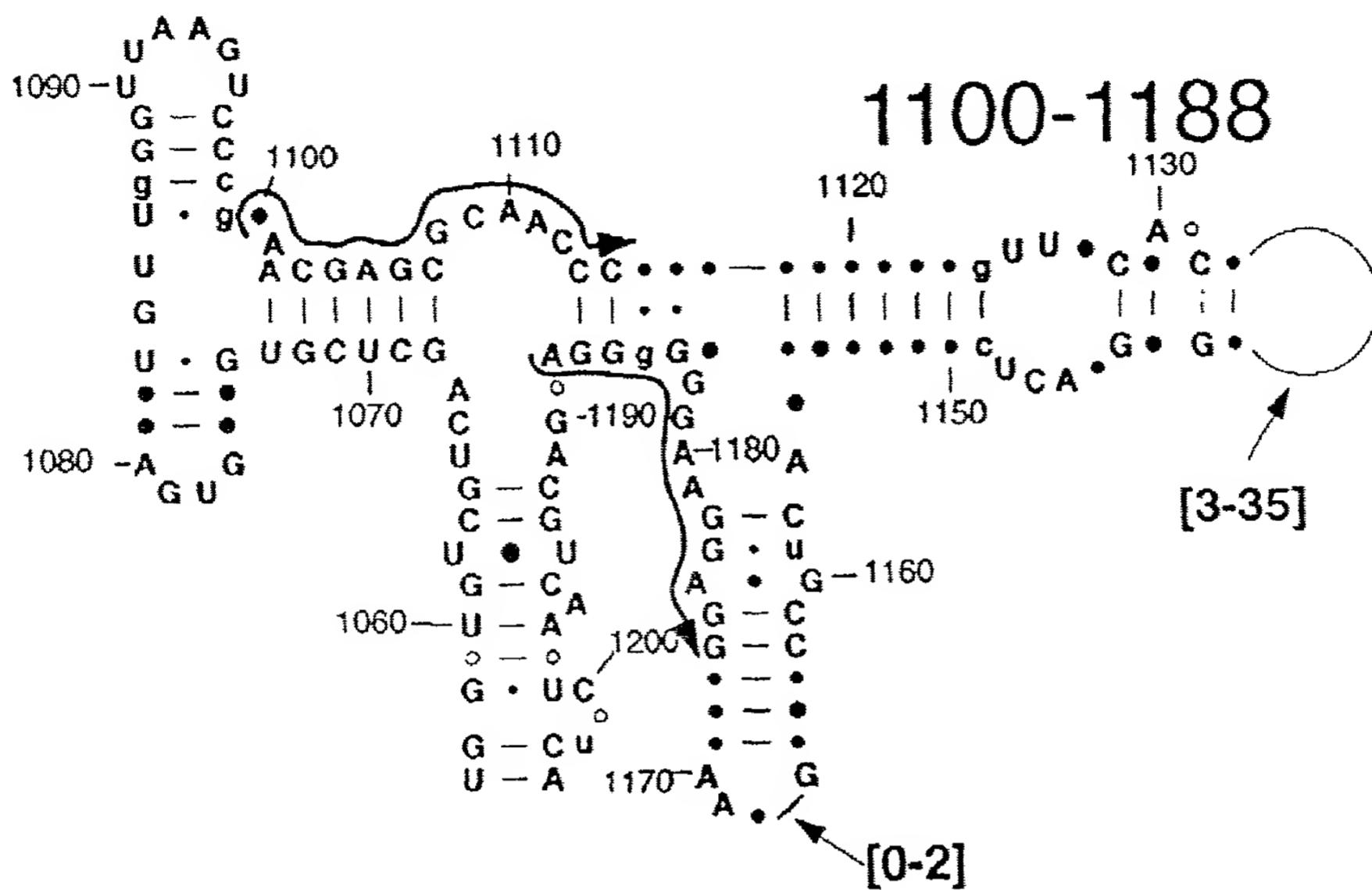


FIG. 2



16S rRNA Domain III

FIG. 3

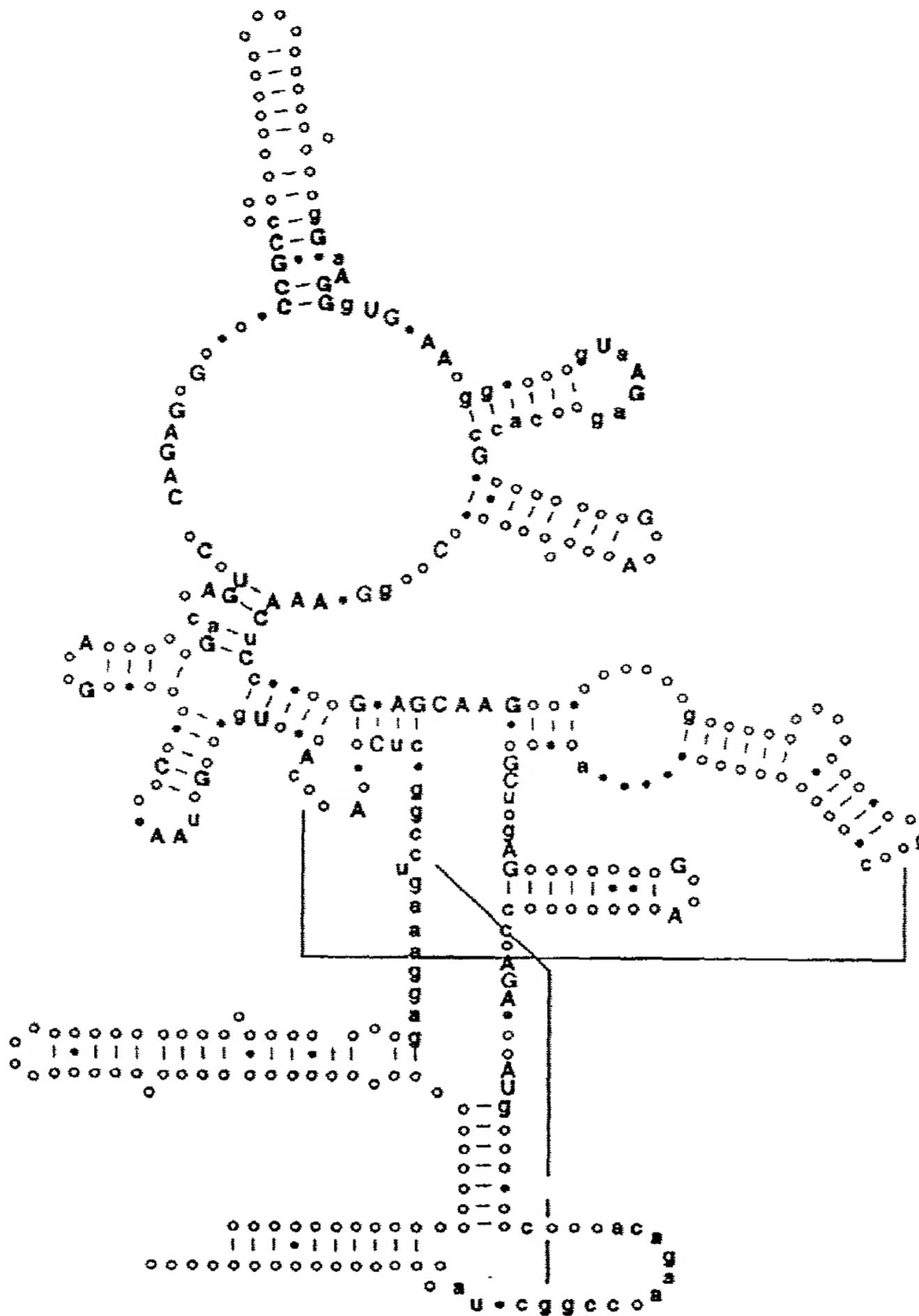


Diagram illustrating the synthesis of a DNA strand:

```

    graph TD
        DNA[DNA sequence: TACGTAACGTT] --> TACGTAACGTT_star[Synthesis of TACGTAACGTT*]
        TACGTAACGTT_star --> TACGTAACGTT_star_watson[Watson]
        TACGTAACGTT_star --> TACGTAACGTT_star_crick[Crick]
        TACGTAACGTT_star_watson --> TACGTAACGTT_star_crick
    
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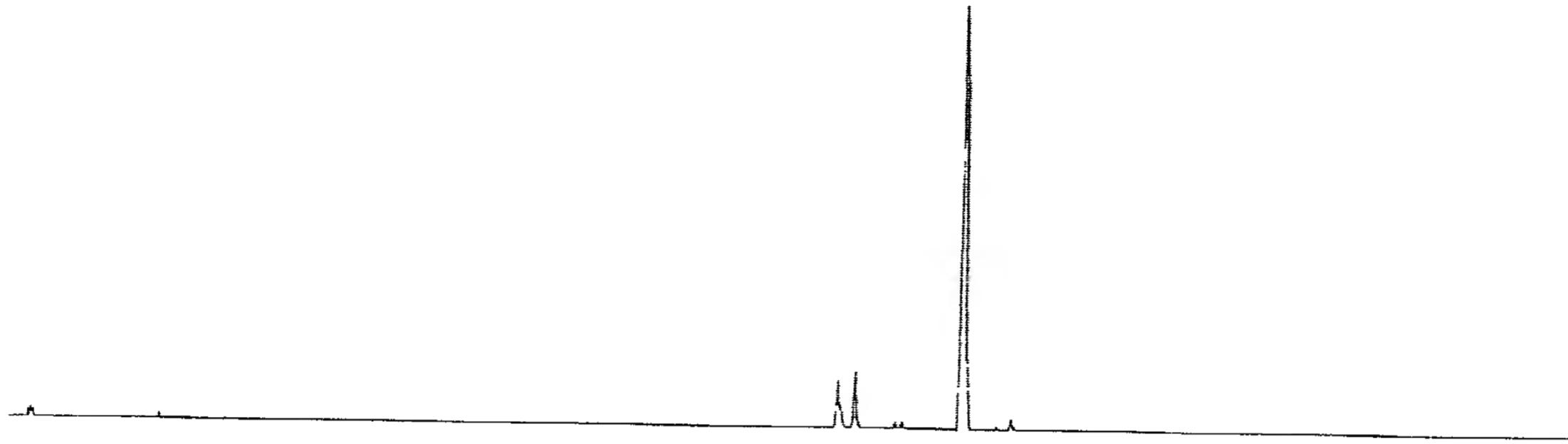
The diagram shows the synthesis of a DNA strand (TACGTAACGTT*) from a template strand (TACGTAACGTT). The synthesized strand is then shown being unwound into two single-stranded forms: Watson (top) and Crick (bottom).

Mass (C₁₂-C) = Y
 tag
 TAC^{*}CTACTGCT → TAC^{*}GTAACGT (Watson)
 → ATGC^{*}ATGCA → ATGC^{*}ATGCA (Crick)

FIG. 4

FIG. 5

B. anthracis ($A_{14}G_9C_{14}T_9$) $MW_{meas} = 14072.2$)



*B. anthracis** ($A_1A^{*}_{13}G_9C_{14}T_9$) $MW_{meas} = 14280.9$)

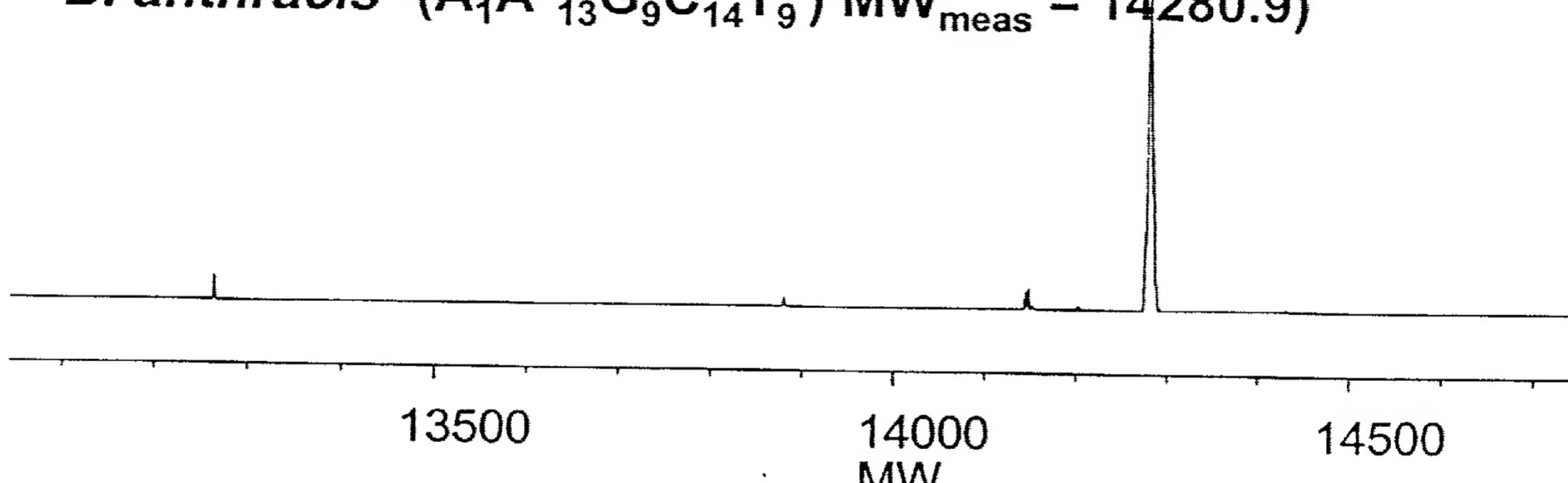
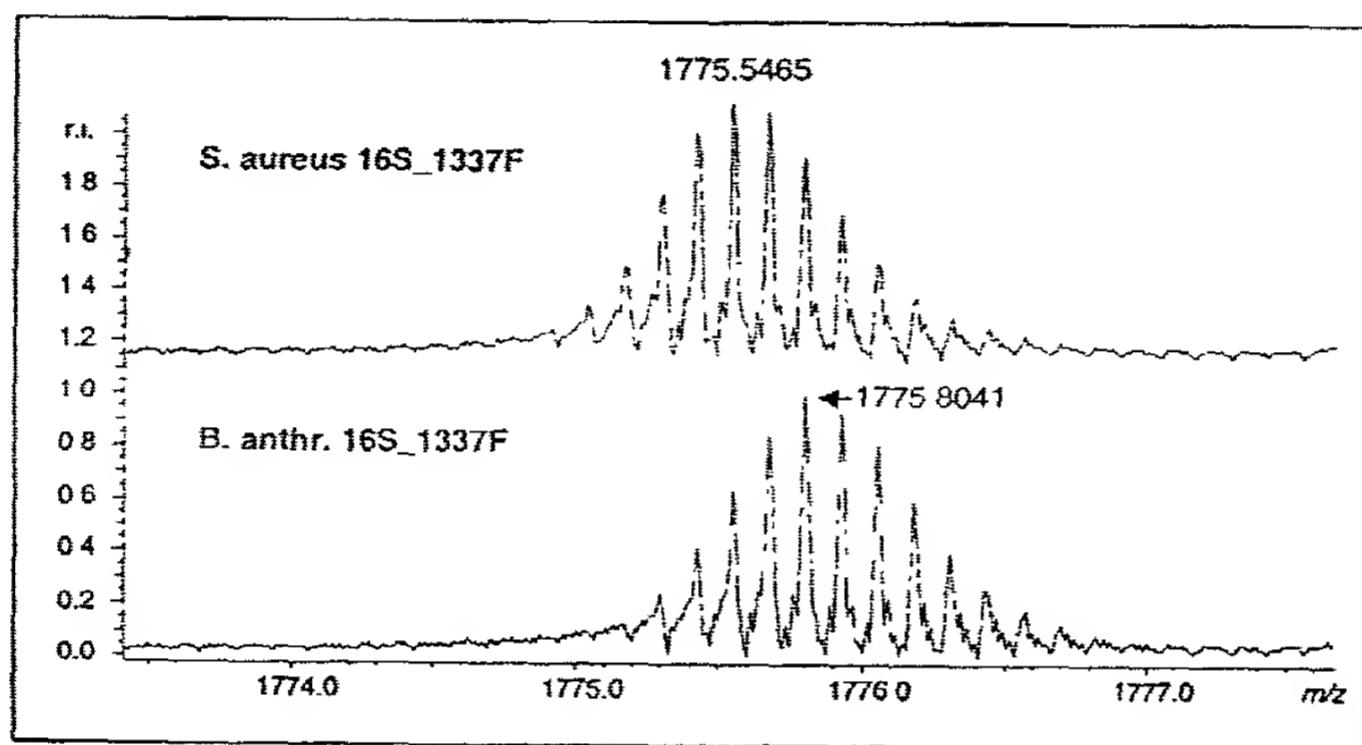
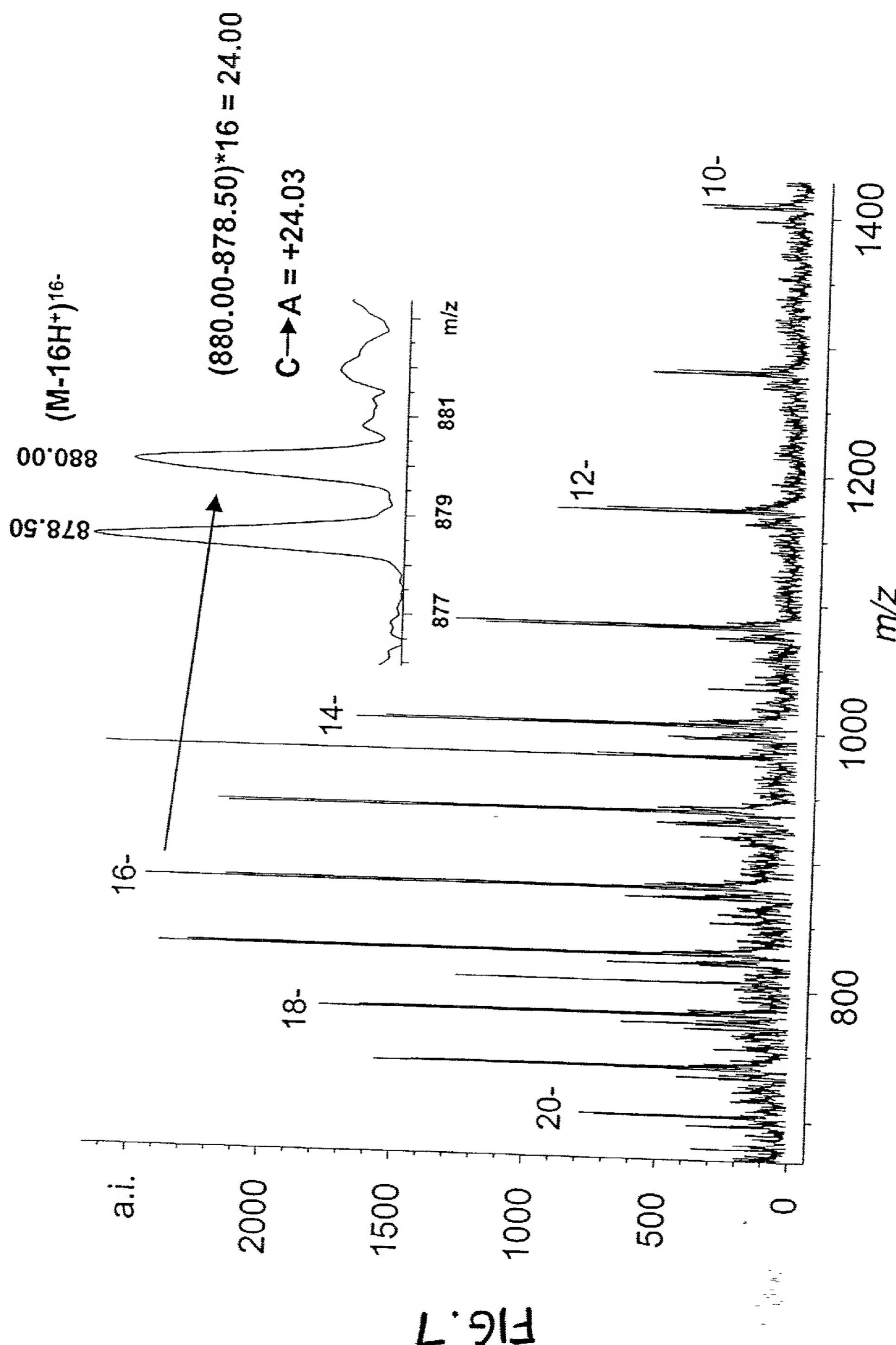
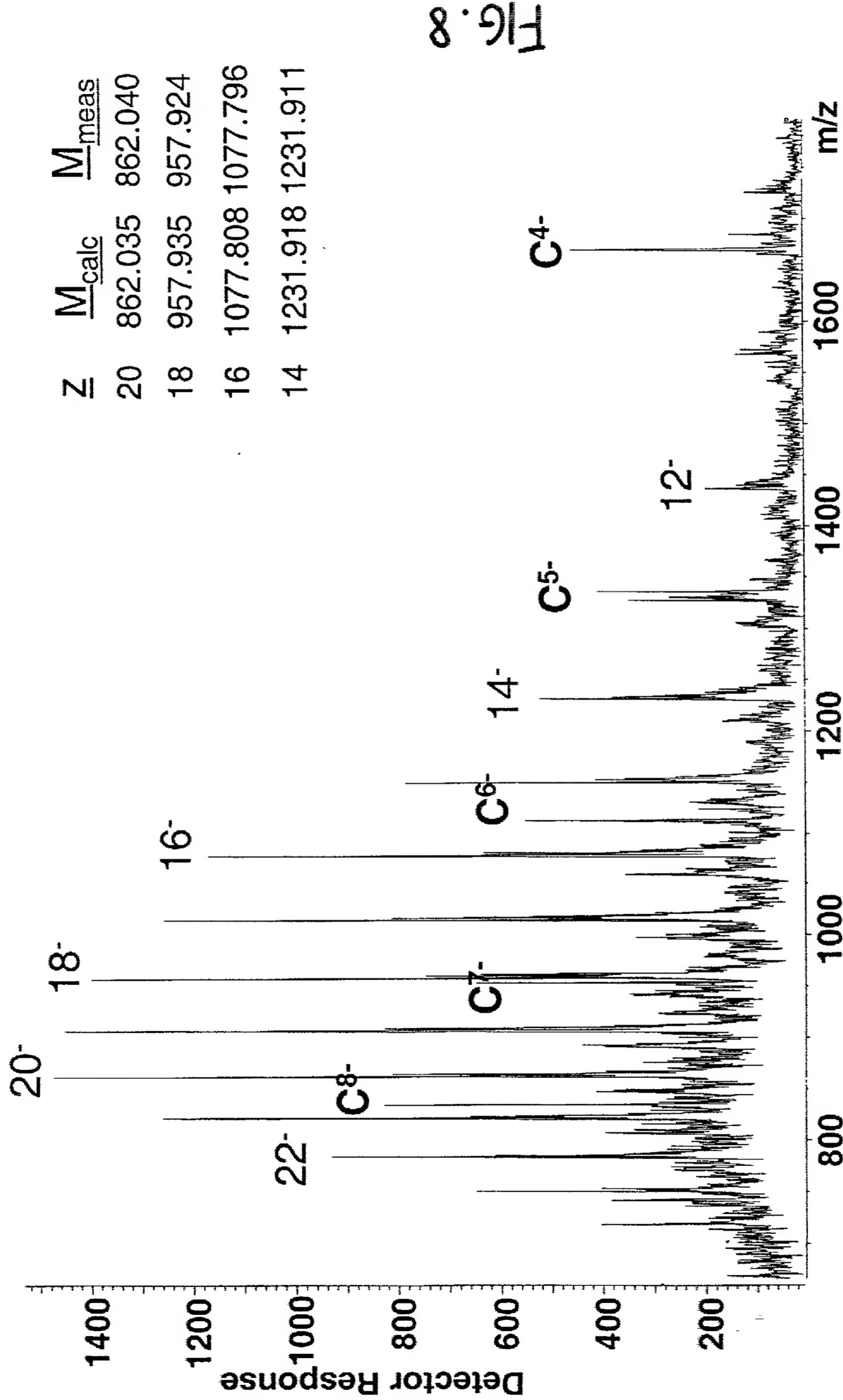


FIG. 6

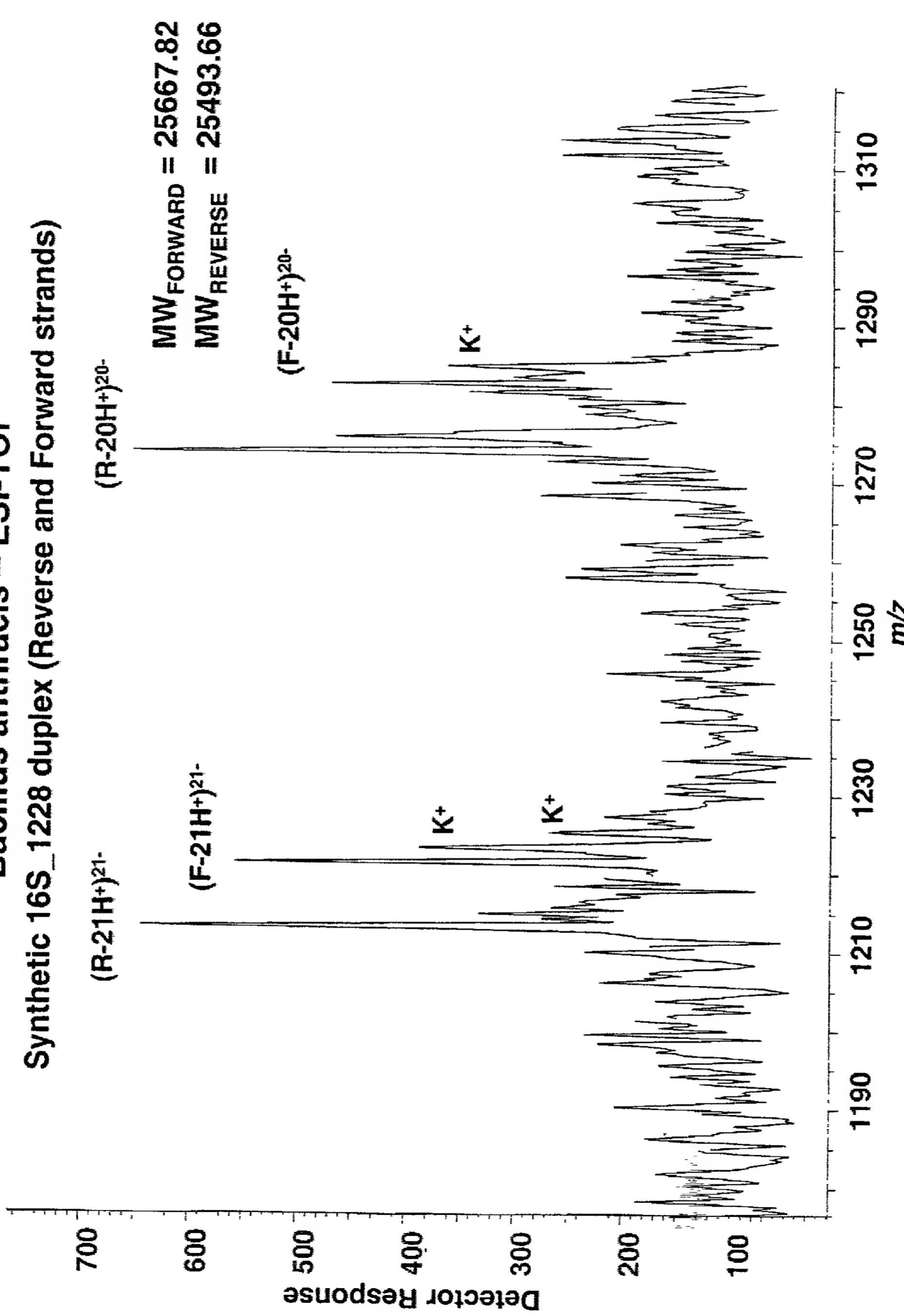




ESI-TOF MS of sspE 56mer + Calibrant

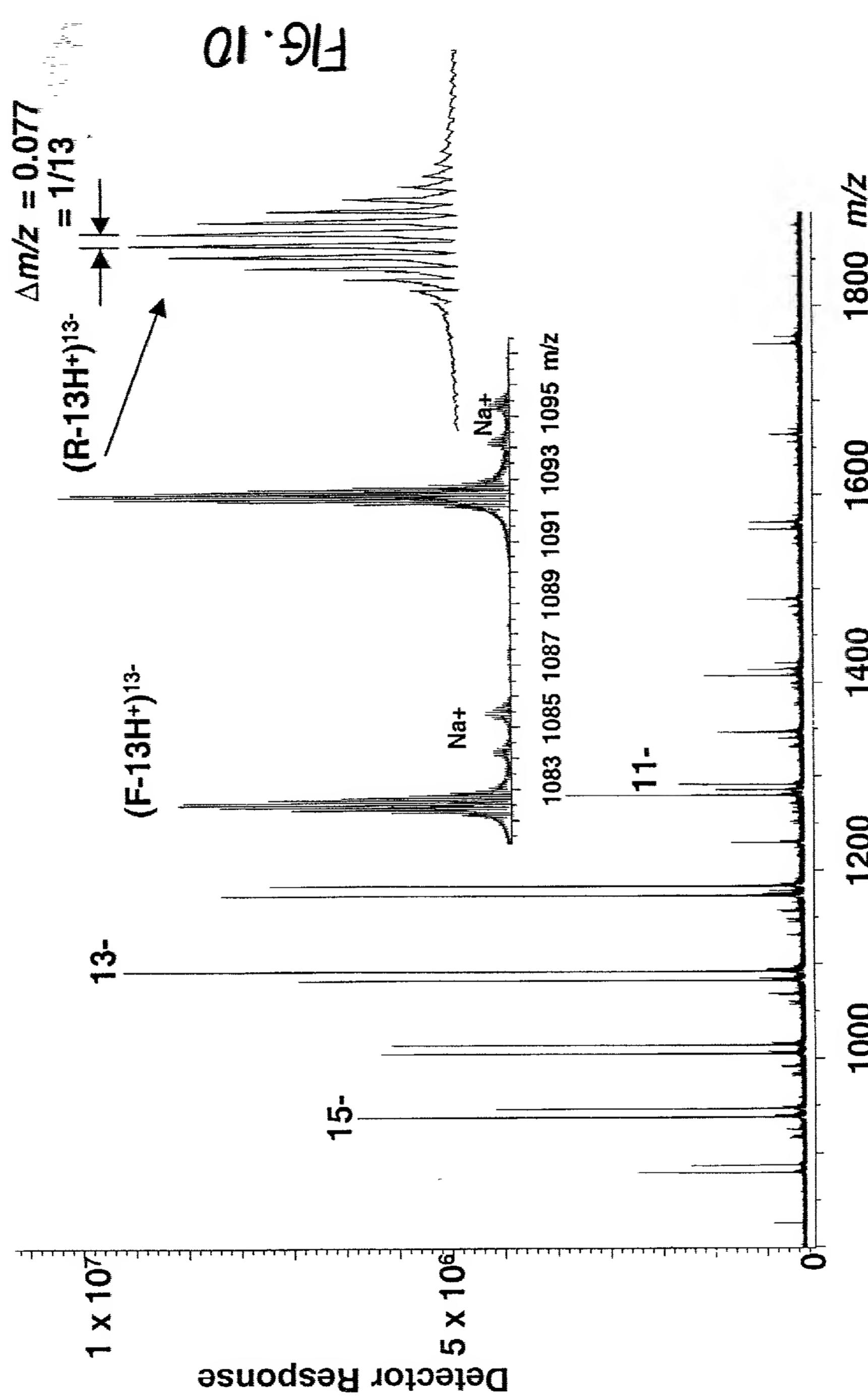


Bacillus anthracis – ESI-TOF
Synthetic 16S_1228 duplex (Reverse and Forward strands)

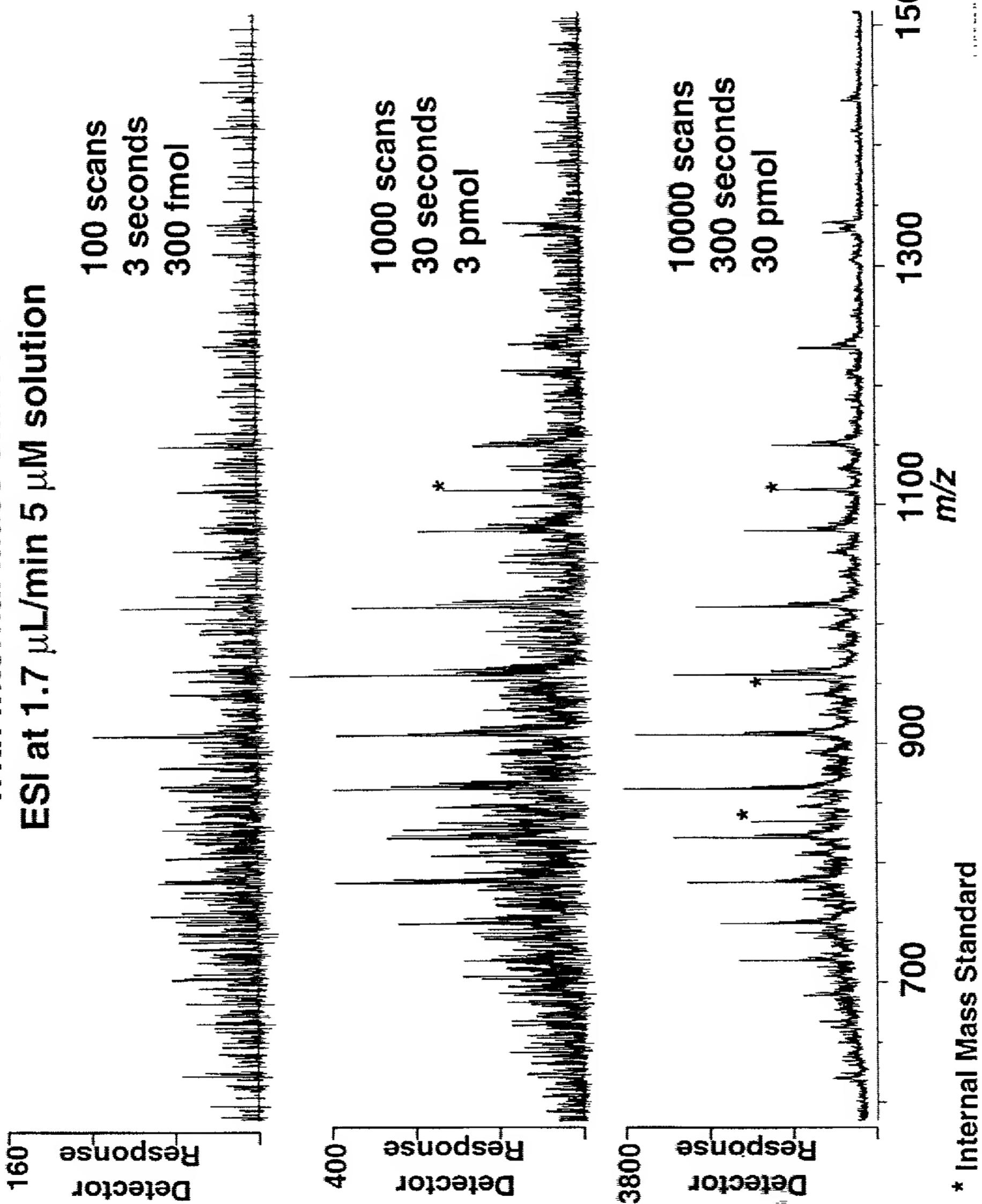


ESI-FTICR-MS of

Synthetic *Bacillus anthracis* 16S_1337 46 bp duplex



**ESI-TOF-MS of 56-mer BAsb Oligonucleotide
With internal mass standard
ESI at 1.7 μ L/min 5 μ M solution**



* Internal Mass Standard



Figure 13

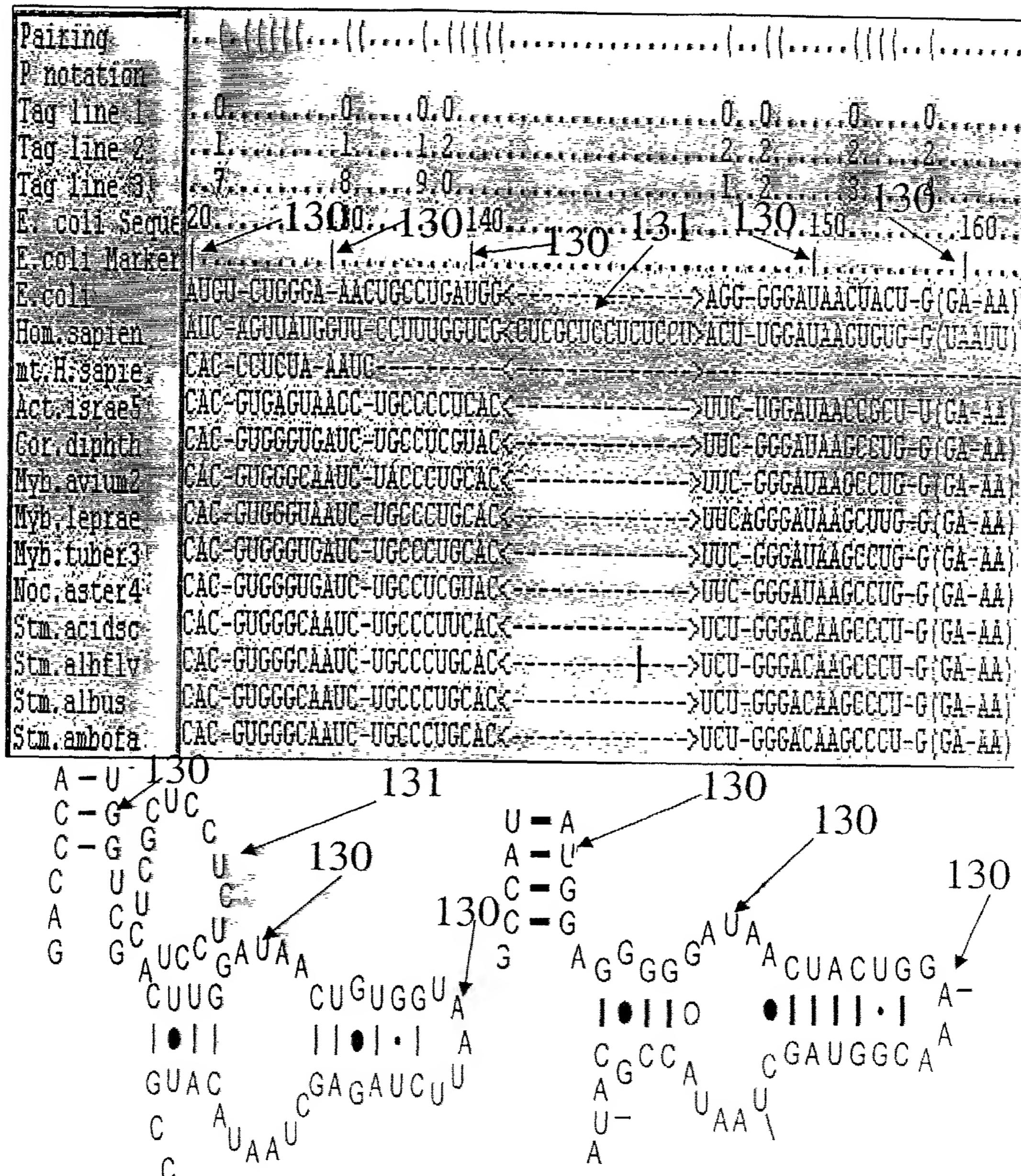


Figure 14

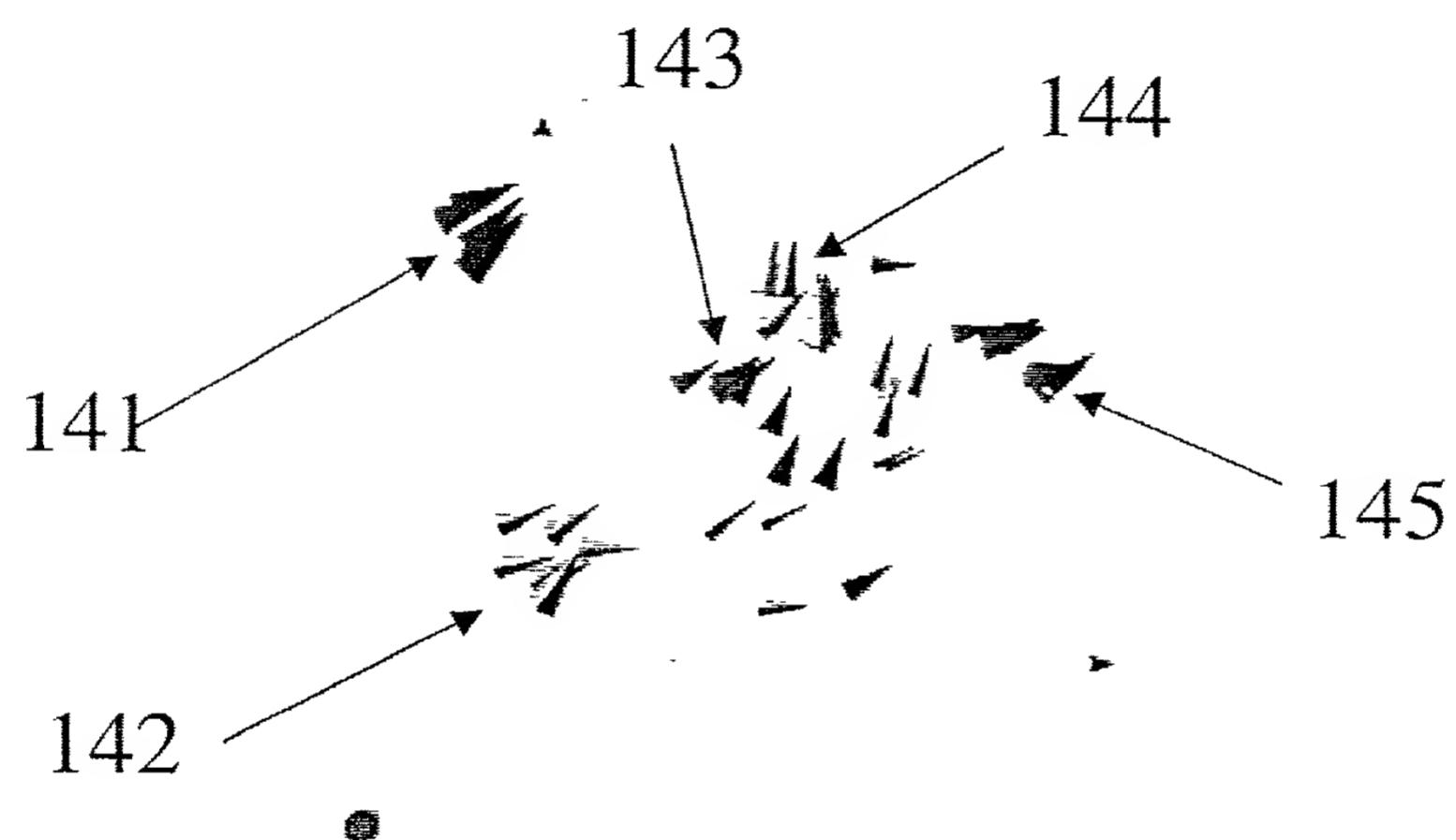


Figure 15

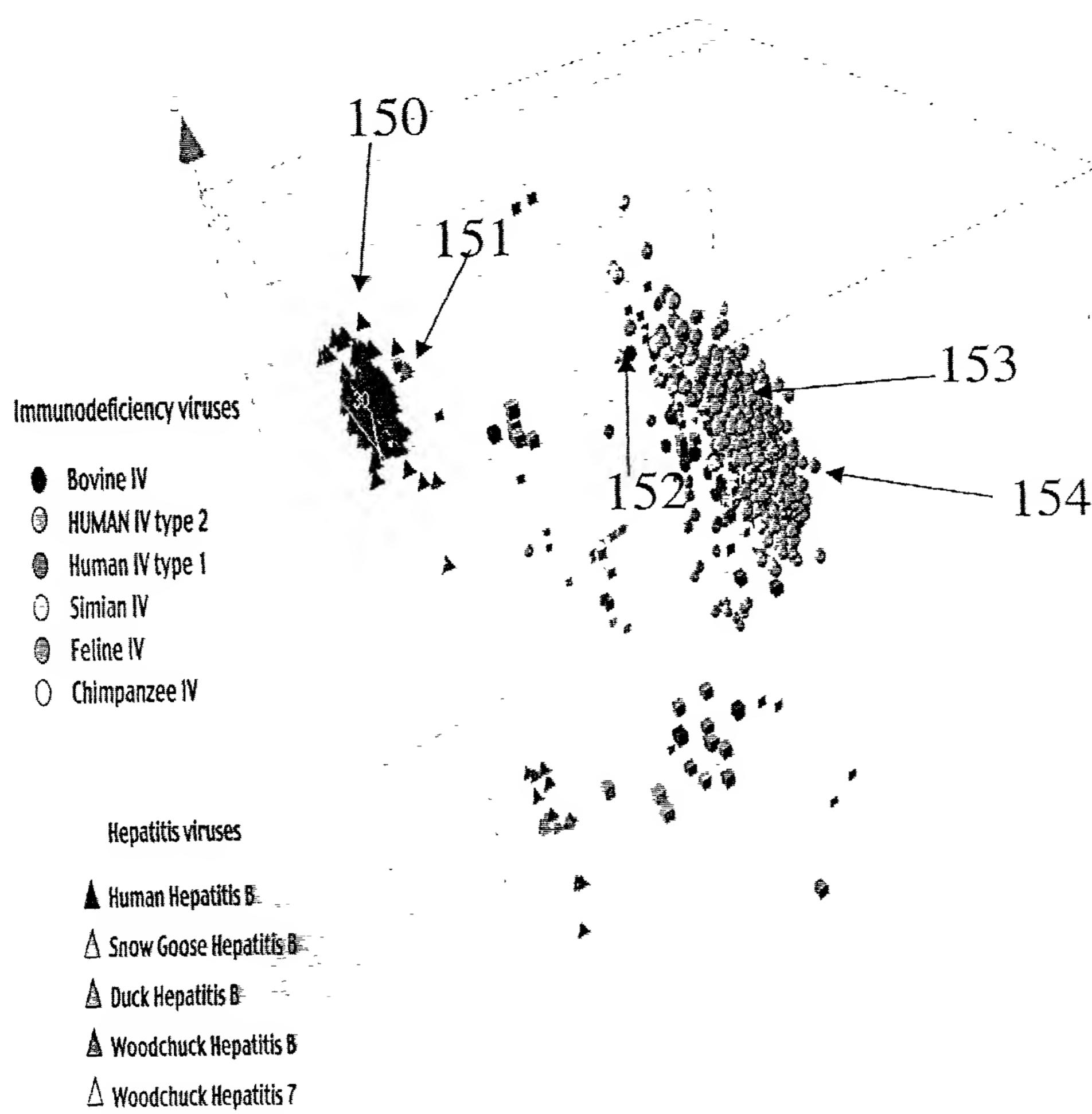
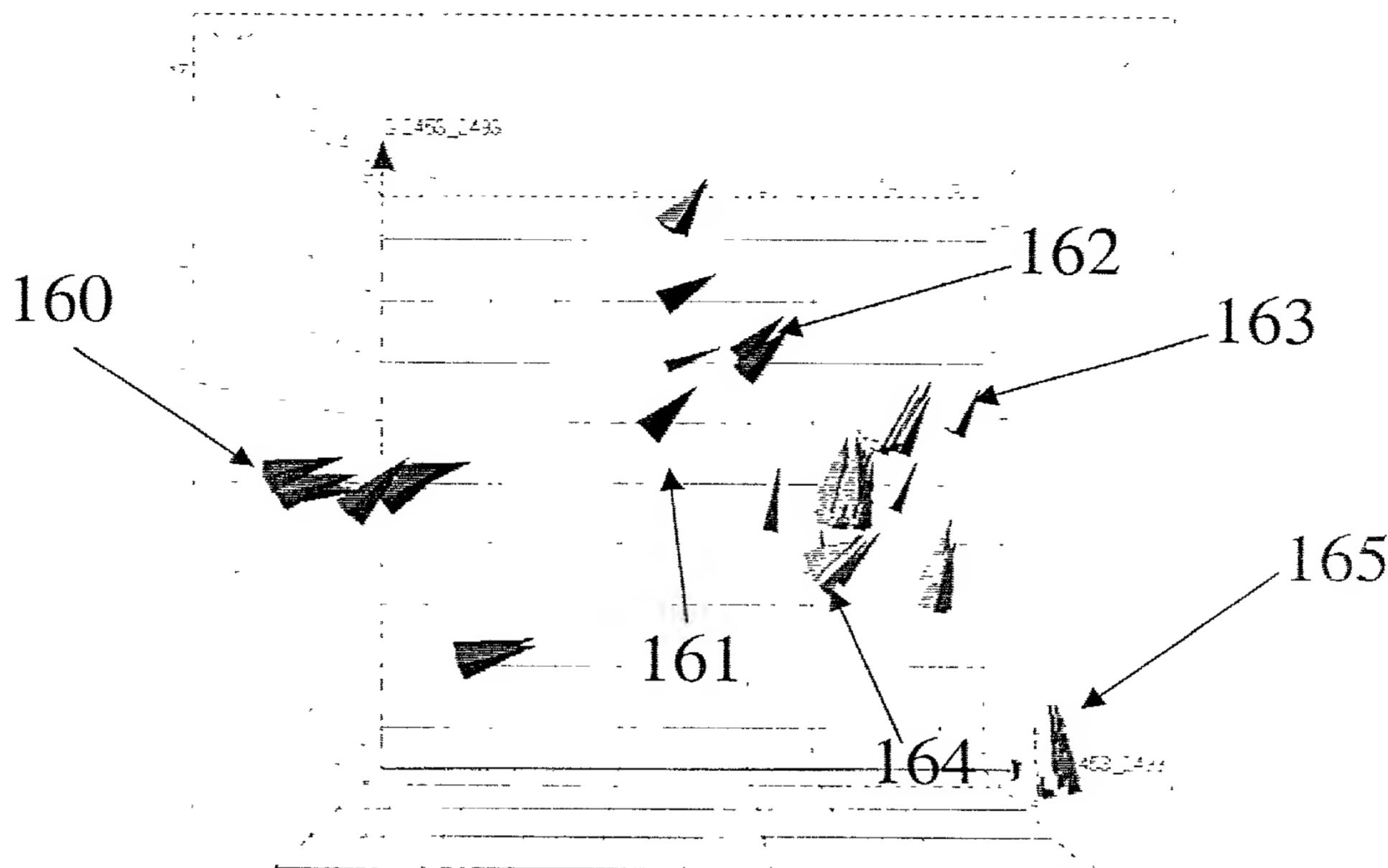


Figure 16



Flavi RdRp 2453-2493

<input checked="" type="checkbox"/> Dengue virus type	<input type="checkbox"/> Japanese encephalitis virus	<input checked="" type="checkbox"/> Tick-borne encephalitis virus
<input type="checkbox"/> Dengue virus type	<input checked="" type="checkbox"/> Kunjin virus	<input type="checkbox"/> West Nile virus
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Figure 17

